Emergency Pneumatics.

Operating Instructions

VETTER Medical Tents

Article No. 9987043403 | © Vetter GmbH I 09/14 I Changes and errors excepted.

Contents

1. Important preliminary remarks 2
2. Description of the product 2
2.1 Scope of delivery 2
2.2 Optional accessories 2
2.3 Correct handling and usage 2
2.4 Safety instructions 3
3. Preparing the product for use 3
3.1 Preparations for operation 3
4. Operating Instructions 3
4.1 Operation with blower 3
4.2 Operation with compressed air 4
4.3 Docking via the circumferential collars 4
4.4 Docking from door to door 5
4.5 Deflation 5
4.6 Folding Plan 7
4.7 Folding Plan for the docking tent 7
5. Practical Tips 9
6. Repeated Inspections 9
7. Repair Instructions 10
8. Technical data 10

1. Important preliminary remarks

These instructions must be read carefully and complied with at all times to ensure this product is used properly and as intended, to ensure this product provides the greatest possible benefit, and that the entitlements within the scope of the Vetter warranty are preserved.

Each use/operation of the medical tent requires detailed knowledge and compliance of these instructions.

The operating instructions given here are to be regarded as part of the product and are to be kept for the complete life duration of the product. In case the product should be passed on to a successive user then the operating instructions must also be included.

2. Description of the product

2.1 Scope of delivery

Description	MT 20	MT 30	MT 40	MT 60	Docking tent
Set, consisting of:					
Tent frame including tension rope	1	1	1	1	1
Tent cover	1	1	1	1	1
Cover for entry	2	2	2	2	4
Securing net in the roof area	1	1	1	1	1
Tent floor	1	1	1	1	1
Pegs	16	20	24	36	20
Bag with hammer and repair material	1	1	1	1	1
Packing bag	1	1	1	1	1

2.2 Optional accessories

Article No.	Description
1520046000	Packing blanket for MT 20, 215 x 145 cm (85 x 57 inch), yellow, including auto belt latch
1523003700	Packing blanket for MT 30 and MT 40, 265 x 150 cm (104 x 59 inch), yellow, including auto belt latch
1523013300	Packing blanket for MT 60 and Docking tent, 330 x 160 cm (130 x 63 inch), yellow, including auto belt latch

2.3 Correct handling and usage

For example, medical tents are used as:

- ✓ First aid tent for large events
- ✓ Operation control centre for aid organisations
- ✓ Medical care tent for large-scale operations
- ✓ Storage tent

- ✓ Screening facility for treatment of injuries
- ✓ Accommodation tent
- ✓ Emergency accommodation during evacuations

The medical tents may only be operated with compressed air; never use flammable or poisonous gases. The medical tents may only be filled using original Vetter fixtures.

2.4 Safety instructions

Only trained, reliable, and responsible employees are permitted to use and operate this product. Wear the required protective gear and clothing. Please contact the manufacturer or authorized retailer when detecting cracks, fissures, holes, or leakages on the pneumatic supporting frame during the product inspection. Such defects can lead to bursting. Always avoid contact with hot or sharp-edged materials.

Always fix tents in place using tension ropes and, depending on the wind load, use additional ballast tanks (filled with water)!

3. Preparing the product for use

3.1 Preparations for operation

Inspect the medical tents before and after each operation to ensure correct and perfect condition. It is imperative that the recommended folding instructions be observed.

4. Operating Instructions

Open the packing cover. Lay out the tent at the required location. The ground area must be free of any sharp-edged or pointed objects!

The pneumatic medical tents are designed to be inflated with a blower or with compressed air.

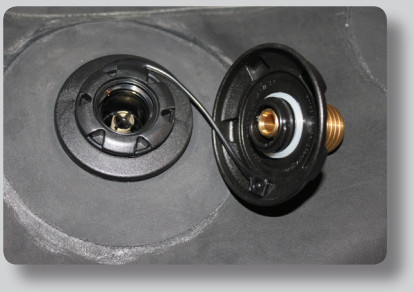
4.1 Operation with blower

The inflation connection for blowers is opened when air flows through. Connect the inflation hose of the blower to the inflation connection of the tent. Unscrew the cap from the inflation connection in a counter-clockwise direction and check whether the valve is closed. Make certain there is perfect locking of the couplings of the inflation hose with the tent coupling and the blower.

Start the blower and fill the tent until the maximum permitted operating pressure of 0.3 bar/4.35 psi. The medical tent erects automatically. The safety valve integrated into the support frame avoids over-inflation (greater than 0.3 bar/4.35 psi).

eg. Tent blower 0.23-0.47 bar (Art. no. 1523017700)

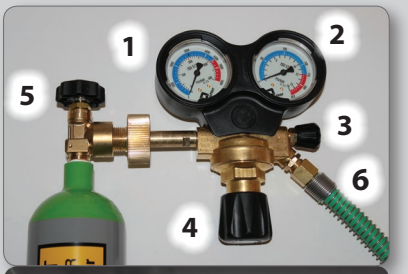
Note! Should parts of the support frame become caught up during erection then switch off the blower immediately and rectify the problem. Inflation can then be continued after doing this.



Replace the cap after filling and tighten it by turning it in a clockwise direction.

4.2 Operation with compressed air

Connect the pressure regulator with the knurled wheel on the compressed air bottle. Close the hand wheel (3) of the pressure regulator. Open the valve on the bottle (5). The manometer (1) indicates the pressure in the bottle. Adjust the back-pressure to approximately 10 bar using the adjustment wheel (4). The set pressure can be checked on the back-pressure manometer (2). Connect the air hose of the pressure regulator (6) with the brass coupling of the inflation connection (7). Open the pressure regulator and start inflation. Observe the tent during the inflation process. Close the hand valve when the operating pressure is reached.



Note! If, during erection of the tent, parts of the tent frame become caught up in the tent cover, then close the valve on the pressure regulator immediately and rectify the cause of the problem. After doing this, the inflation process can be continued.

4.3 Docking via the circumferential collars

The medical tents can be connected to each other using two different methods. The tents can be connected via the circumferential collars to create large, continuous tent areas. Velcro can be used to quickly create a space protected from the weather using two or more tents. To do so, place the tents as closely as possible to each other and connect the Velcro, beginning at the roof.

You then have the option of removing the entrance awnings or only rolling up the doors.

Important! The Velcro must also be closed on the roof in order to ensure corresponding protection from the weather.

4.4 Docking from door to door

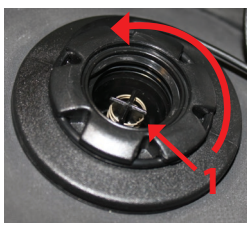
The other option for connecting the medical tents to each other takes place from door to door. An addition collar around the door opening exists on all medical tents. These collars will be connected by using zippers.

The doors can then be rolled up in order to keep the passage open or they can be closed in order to be able to independently use the connected tents, as you choose.

4.5 Deflation

The deflation of the support frame happens over the inflation connection. To deflate the tent, close the air source (compressed air cylinder, etc.) and disconnect the pressure reducer or the filling hose of the blower. The deflation valve is opened by pressing-in and turning the pin (1) counter clockwise.

Pin before locking



Pressing-in + turning

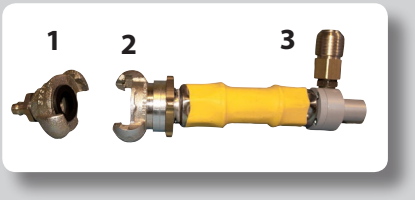
Valve open

Fold the tent in the way, that the air can escape (Folding to the direction of the inflation connection). Any remaining air can be removed with a vacuum adaptor (Item No.: 1700018300) in combination with an construction-site compressor adaptor (Item No.: 1600012000).

Connect the construction-site compressor adaptor (1) to the coupling of the vacuum adaptor (2) and turn it interlocking. Then tighten the screwable part of t the vacuum adaptor. Now connect the constructionsite compressor adaptor to the support frame. Attach the quick-action coupling (3) to the connection hose of the pressure regulator and open the hand valve of the pressure regulator slowly.

It is also possible to deflate the support frame with a blower with deflate function. Follow the operating instructions of the blower.

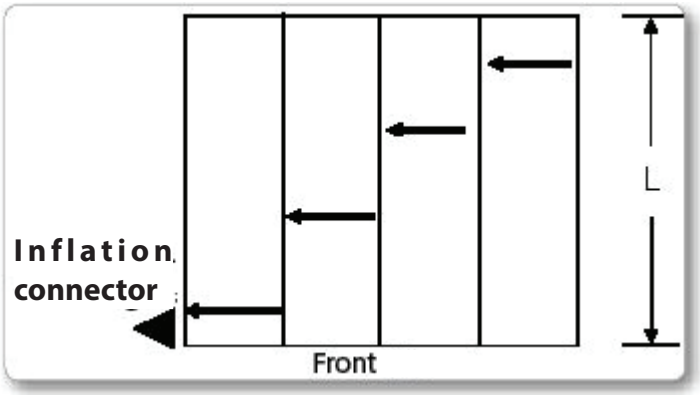
After deflation and before packing, the valve must be unlocked again in order to guarantee perfect inflation when it is next used!



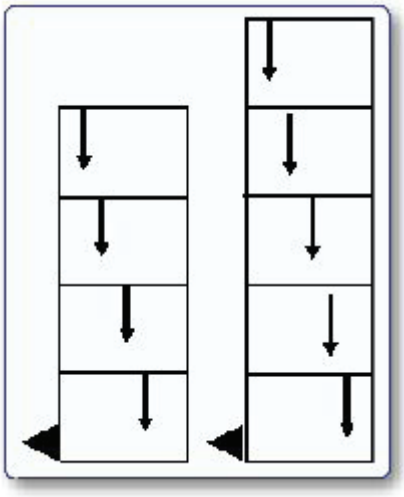
4.6 Folding Plan

Before repacking, tent frame must be completely empty.

1. The front of the tent is folded lengthwise in four equal sections.



2. Only roll in the direction of the inflation connection.

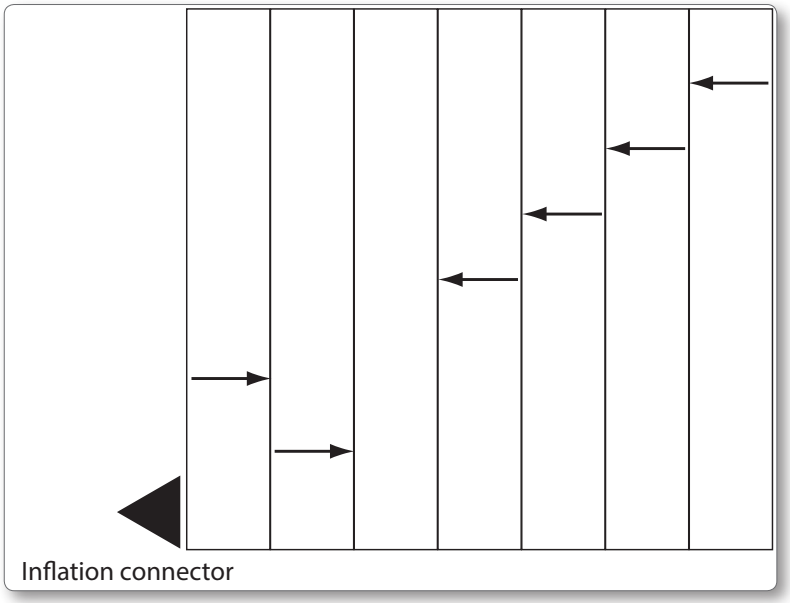


3. Now place the tent into the carrying bag.

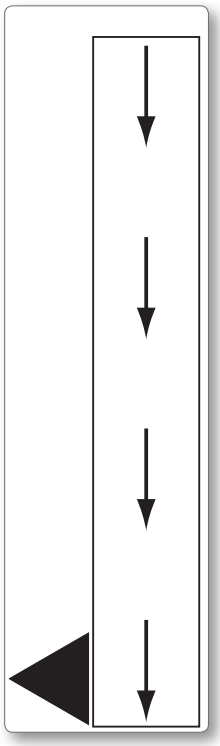
4.7 Folding Plan for the docking tent

Before repacking, tent frame must be completely empty.

1. The docking tent needs to be folded four times, from right to left into equal segments. After that it has to be folded two times from left to right, in order to reach the width of the packing bag.



2. Only roll in the direction of the inflation connection.



3. Now place the tent into the carrying bag.

5. Practical Tips

- ✓ The individual separation walls, floors and entrance awnings can be quickly and easily removed if needed The connection to the pneumatic support structure is made using Velcro.
- ✓ When using tent heaters, avoid blowing heat directly onto parts of the tent.
- ✓ Lighting can be hung from the frames during use. The securing net in the roof offers the best option for this.
- ✓ Additional tents can be easily connected with each other using circumferential Velcro collars or via the doors for expansion purposes.
- ✓ The barrier-free flooring makes it easier to transport patients in the lying (horizontal) position during use.
- ✓ After use, clean the tent with a mild cleanser before packing. Allow the parts to dry at normal room temperature. Treat outer surfaces with commercially available impregnating agents.
- ✓ Follow the instructions of the folding plan to fold and pack the tent. Make sure that the tent is folded and packed in an orderly manner and as instructed to ensure the tent is easy to unpack next time it is needed.

6. Repeated Inspections

The tents should be subjected to a visual and functional inspection by a trained technician at least once a year. This requires inflating the tent to approx. 50 % of the max. working pressure (0.15 bar). Check all pressurized parts for fissures, cracks, cuts, puncture holes, detached spots, and heat or chemical damage.

If the pressure does not experience a significant drop within one hour, the tent is ready for use.

Please contact the manufacturer in case of larger damage or if you have any questions.

Comply with DIN 7716 if storing the medical tents long-term.

7. Repair Instructions

Minor damage such as cracks, cuts, or punctures (max. 4 cm) can be repaired by the operator with the enclosed repair kit. Please follow these steps:

1. Select the size of the patch so that the patch extends approx. 4 cm beyond the damaged area on all sides.
2. Mark patch area on the supporting frame.
3. Roughen the area of the patch on the surface of the supporting frame as well as one side of the patch.
4. Apply a thin layer of the special adhesive to the roughened spot on the supporting frame and the roughened side of the patch.
5. Allow special adhesive to dry for approx. 10-15 minutes until no longer sticky.
6. Press patch firmly onto the pretreated area of the supporting frame and smooth out.
7. Allow unpressurized supporting frame to rest for at least 48 hours.

Only the factory is able to repair damage that is more extensive.

A trained technician must check the tent and its supporting frame for leaks after the repairs.

8. Technical data

Type		MT 20	MT 30	MT 40
Article No. PREMIUM set with PU tent tarpaulin		1523027400	1523027500	1523027600
Article No. BASIC Set with PU tent tarpaulin (without window/net, only 2 duct openings)		1523027900	1523028000	1523028100
Usable Area	m^2	20	30	40
	sq.ft.	216	324	432
Number of possible beds		6	8	12
Erection time, ca.	sec.	120	180	240
Exterior size (L x W x H)	cm	370 x 593 x 324	550 x 593 x 324	730 x 593 x 324
	ft	12 x 19 x 11	18 x 19 x 11	24 x 19 x 11
Interior size (L x W x H)	cm	370 x 534 x 294	550 x 534 x 294	730 x 534 x 294
	ft	12 x 18 x 10	18 x 18 x 10	24 x 18 x 10
Air requirement	l	3,052	4,566	5,851
	cu.ft.	108	161	207
Pack size	cm	110 x 85 x 60	110 x 85 x 60	110 x 85 x 85
	inch	43 x 33 x 24	43 x 33 x 24	43 x 33 x 33
Weight BASIC, ca.	kg	74.5	107.5	156.5
	lbs	164	237	345
Weight PREMIUM, ca.	kg	76	110	160
	lbs	168	243	353

Type		MT 60	Docking tent
Article No. PREMIUM set with PU tent tarpaulin		1523027700	1523027800
Article No. BASIC set with PU tent tarpaulin (without window/net, only 2 duct openings)		1523028200	-
Usable Area	m^2	60	45
	sq.ft.	648	462
Number of possible beds		18	-
Erection time, ca.	sec.	360	300
Exterior size (L x W x H)	cm	1,100 x 593 x 324	660 x 660 x 324*
	ft	36 x 19 x 11	21,5 x 21,5 x 11
Interior size (L x W x H)	cm	1,100 x 534 x 294	660 x 660 x 294
	ft	36 x 18 x 10	21,5 x 21,5 x 10
Air requirement	l	8,113	4,567
	cu.ft.	287	161
Pack size	cm	110 x 95 x 100	110 x 85 x 85
	inch	43 x 37 x 39	43 x 33 x 33
Weight BASIC, ca.	kg	205	
	lbs	452	
Weight PREMIUM, ca.	kg	210	135
	lbs	463	298

* Height of roof ridge = 390 cm/12,5 ft

All rights reserved for technical changes within the scope of product improvement.

Place your trust in emergency pneumatics!

We are the company who can help you, find a solution to your problem!

Vetter GmbH
A Unit of IDEX Corporation

Blatzheimer Str. 10 - 12
D-53909 Zülpich
Germany

Sales

Tel.: +49 (0) 22 52 / 30 08-0
Fax: +49 (0) 22 52 / 30 08-590
Mail: vetter.rescue@idexcorp.com

www.vetter.de

Article No. 9987043403 | © Vetter GmbH I 09/14 I Changes and errors excepted. | Made in Germany